

September 2021 Climate Summary

Overview

Weather Forecast Office
Albuquerque, NM
Issued October 2, 2021 1:31 PM MDT



Synopsis

September 2021 was warmer to much warmer than normal statewide! Precipitation was near to below normal in the west, and below to well below normal in central and eastern areas.



Roswell, September 4, 2021
Photo courtesy of Meg Tidmore



Roswell, September 4, 2021
Photo courtesy of Meg Tidmore



Roswell, September 4, 2021
Photo courtesy of Meg Tidmore

September 2021 Climate Summary

State Temperatures

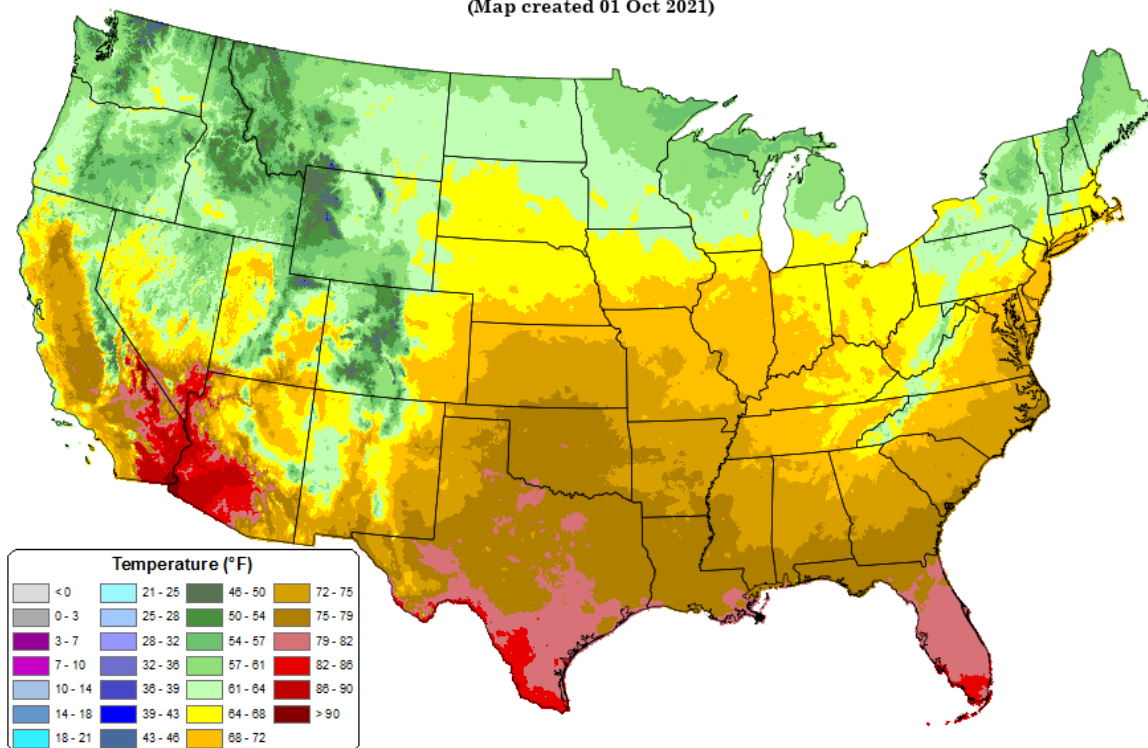
Weather Forecast Office
Albuquerque, NM
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Actual

Average Daily Mean Temperature: 01 Sep 2021 - 30 Sep 2021

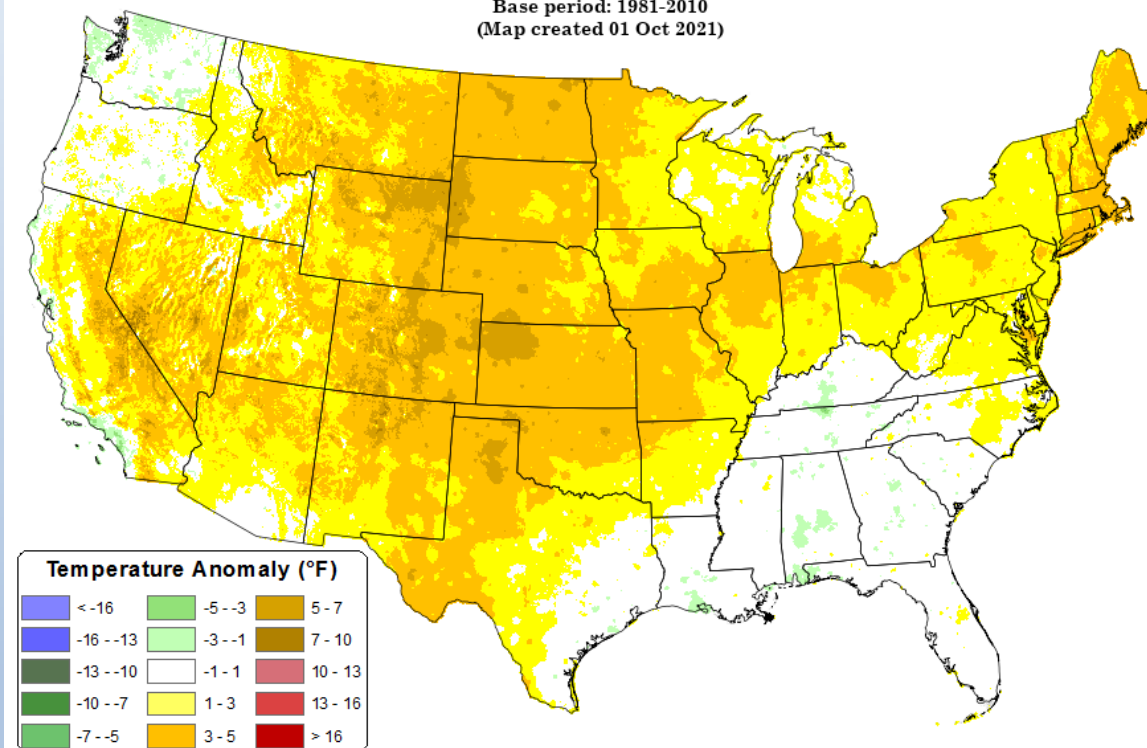
Period ending 7 AM EST 30 Sep 2021
(Map created 01 Oct 2021)



Anomaly

Daily Mean Temperature Anomaly: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021
Base period: 1981-2010
(Map created 01 Oct 2021)



September 2021 Climate Summary

State Precipitation

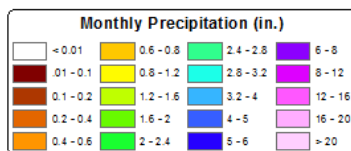
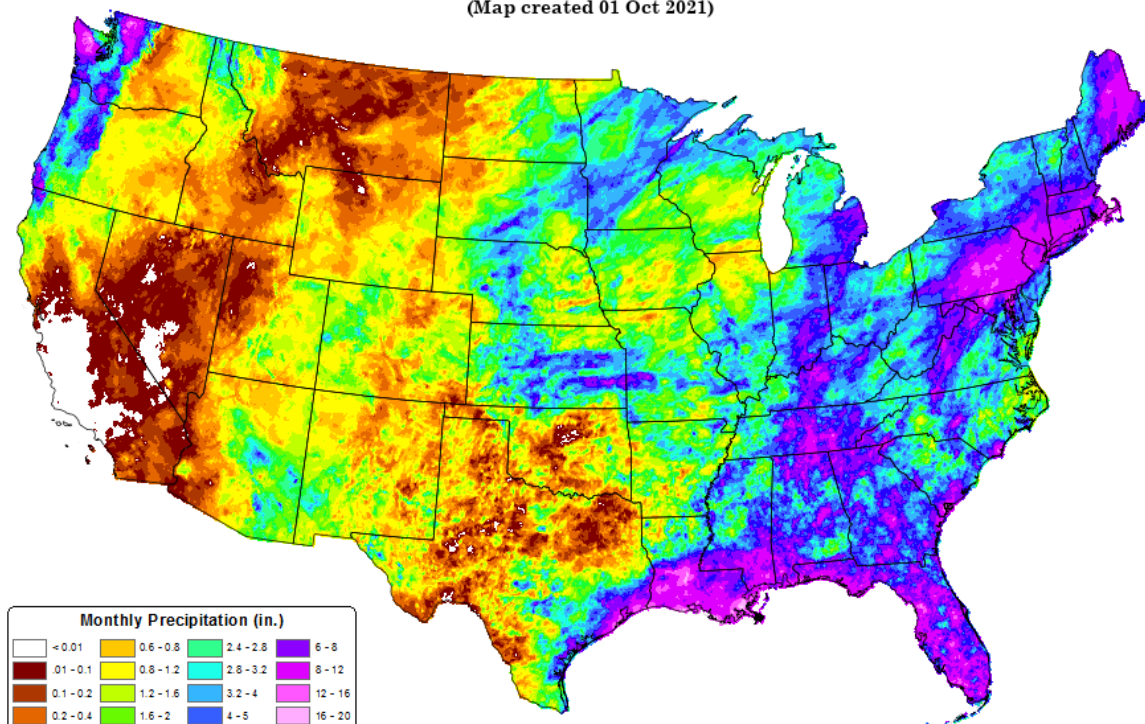
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Actual

Total Precipitation: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021
(Map created 01 Oct 2021)

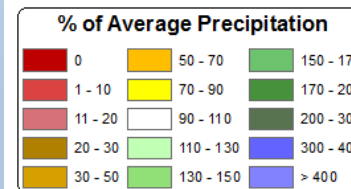
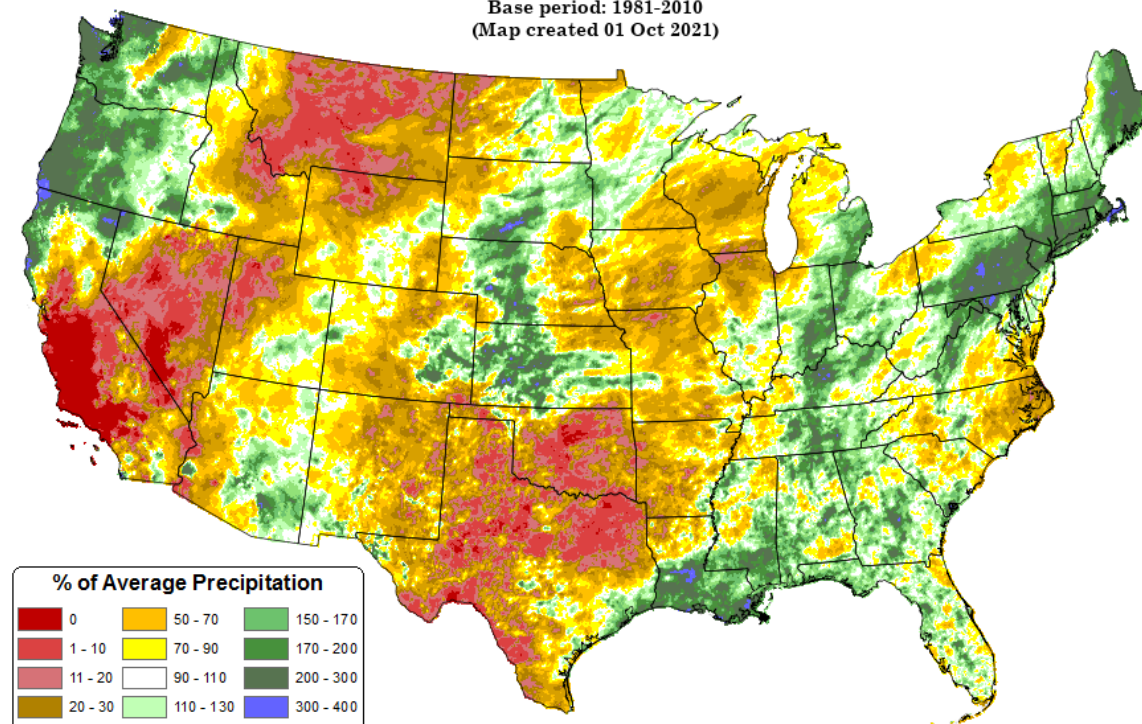


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Anomaly

Total Precipitation Anomaly: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021
Base period: 1981-2010
(Map created 01 Oct 2021)



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September 2021 Climate Summary

Albuquerque Sunport Temperatures

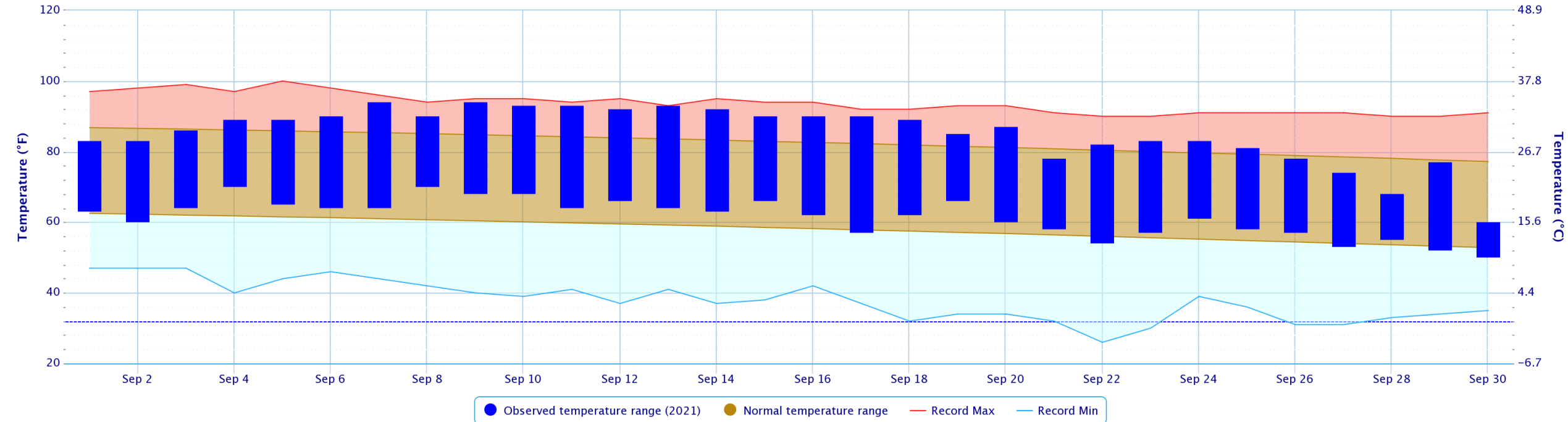
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(New 1991-2020 Normals) **Average Temperature: 73.3°**

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2021-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average September temperature for Albuquerque was 73.3°, which was 3.0° above the normal of 70.3°. The average maximum temperature for the month was 85.2°. This was 2.7° above the normal average maximum temperature of 82.5°. The average minimum temperature for the month was 61.4°. This was 3.3° above the normal average minimum temperature of 58.1°. September 2021 was the 6th warmest on record.



NWS Albuquerque

weather.gov/abq

September 2021 Climate Summary

Albuquerque Sunport Precipitation

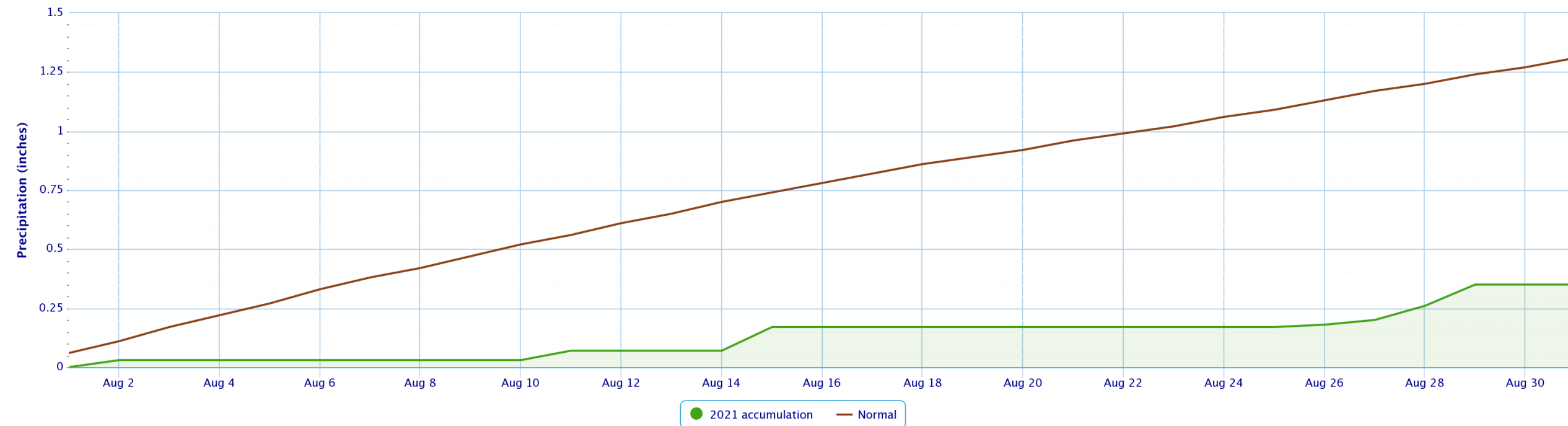
Weather Forecast Office
Albuquerque, NM
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(New 1991-2020 Normals) **Total Precipitation: 1.13"**

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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There was 1.13" of precipitation measured at the Sunport, compared to the normal of 1.15", or 0.02" below normal. This was tied for the 84th driest September on record.

September 2021 Climate Summary

Clayton Temperatures

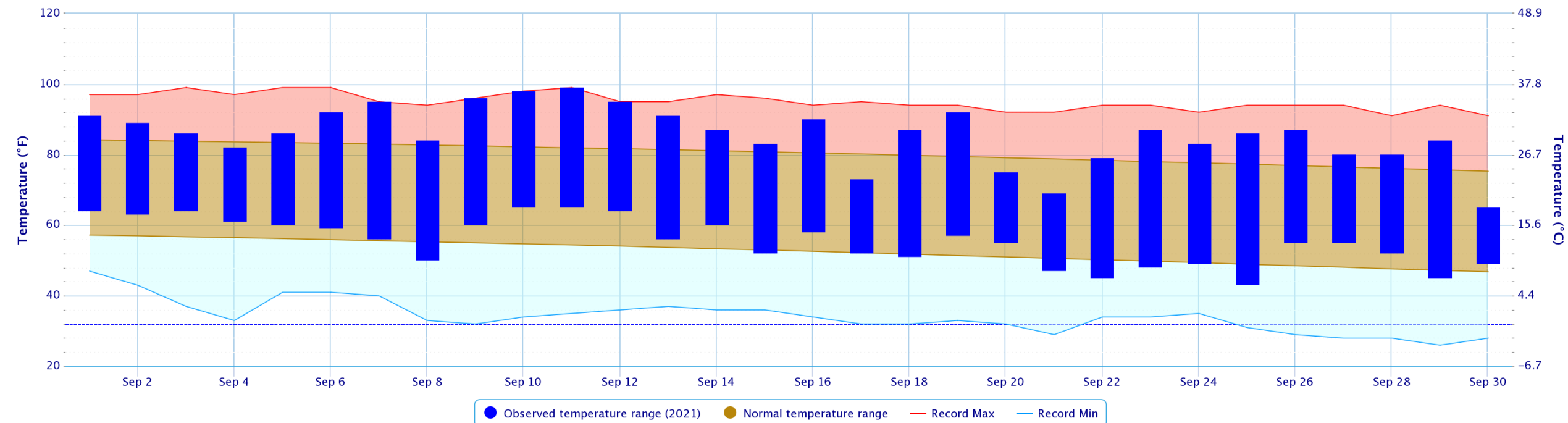
Weather Forecast Office
Albuquerque, NM
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(New 1991-2020 Normals) **Average Temperature: 70.5°**

Daily Temperature Data – Clayton Area, NM (ThreadEx)

Period of Record – 1896-02-01 to 2021-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average September temperature for Clayton was 70.5°, which was 4.1° above the normal of 66.4°. The average maximum temperature for the month was 85.7°. This was 5.4° above the normal average maximum temperature of 80.3°. The average minimum temperature for the month was 55.3°. This was 2.8° above the normal average minimum temperature of 52.5°. September 2021 was 6th warmest on record.



NWS Albuquerque

weather.gov/abq

September 2021 Climate Summary

Clayton Precipitation

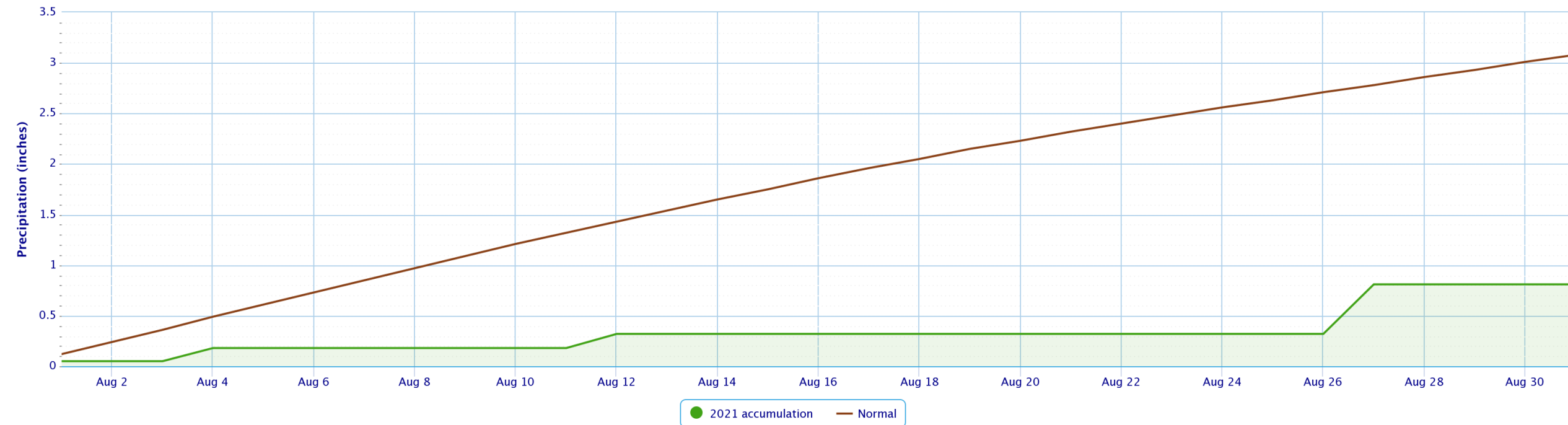
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Albuquerque, NM
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(New 1991-2020 Normals) **Total Precipitation 0.40"**

Accumulated Precipitation – Clayton Area, NM (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



Powered by ACIS

There was 0.40" of precipitation measured at Clayton in September 2021, compared to the normal of 1.75", or 1.35 " below normal. This ranks as the 19th driest September on record.

September 2021 Climate Summary

Roswell Temperatures

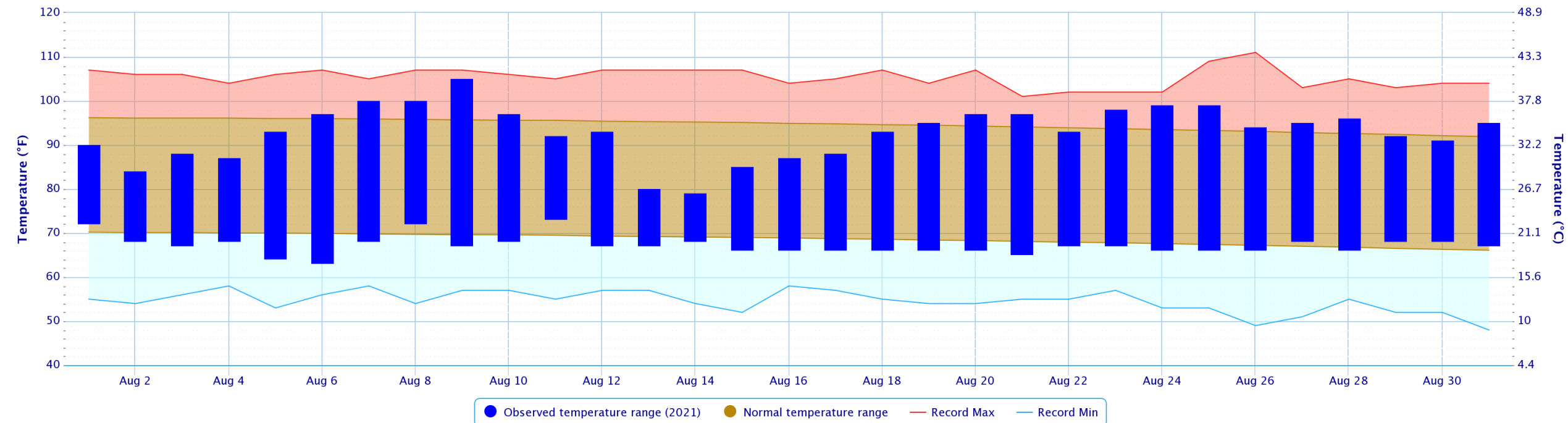
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Albuquerque, NM
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(New 1991-2020 Normals) **Average Temperature: 76.4°**

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2021-09-01; Min temperature: 1893-01-21 to 2021-09-01. Normals period: 1991-2020. Click and drag to zoom chart.



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The average September temperature for Roswell was 76.4°, which was 2.0° above the normal of 74.4°. The average maximum temperature for the month was 91.5°. This was 3.9° above the average maximum temperature of 87.6°. The average minimum temperature for the month was 61.4°. This was 0.2° above the normal average minimum temperature of 61.2°. September 2021 was the 5th warmest on record.



NWS Albuquerque

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September 2021 Climate Summary

Roswell Precipitation

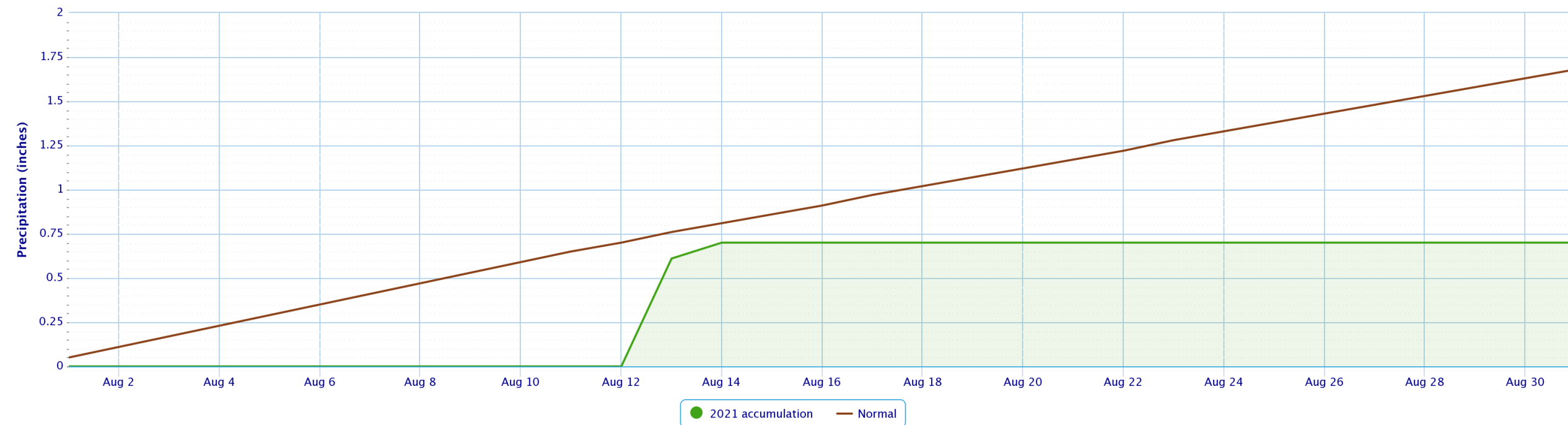
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(New 1991-2020 Normals) **Total Precipitation 1.16"**

Accumulated Precipitation – Roswell Area, NM (ThreadEx)

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



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There was 1.16" of precipitation measured at Roswell, compared to the normal of 1.55", or 0.39" below normal. This ranks as a tie for the 60th driest on record.



NWS Albuquerque

weather.gov/abq

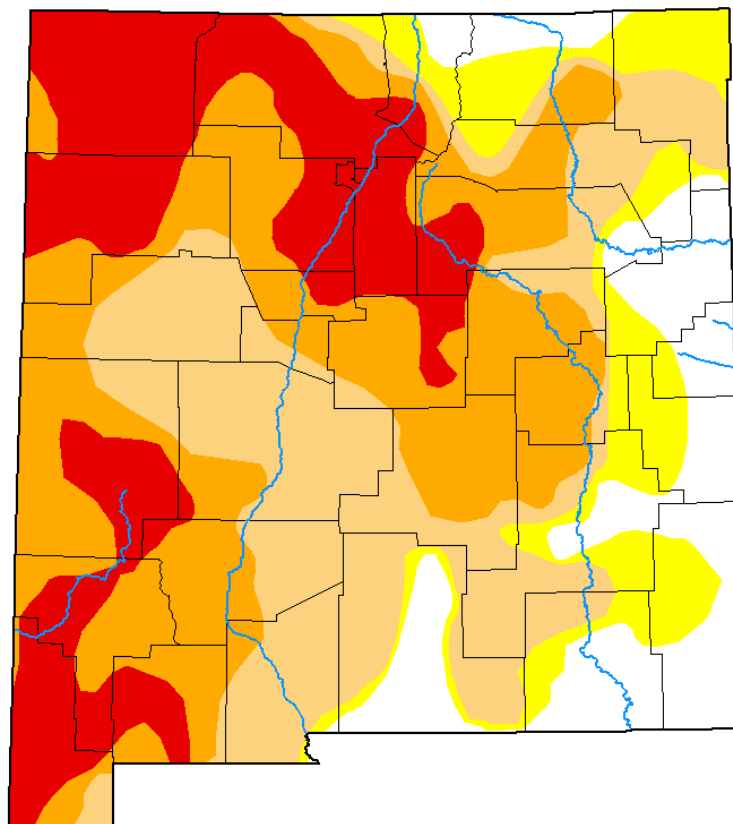
September 2021 Climate Summary

Drought

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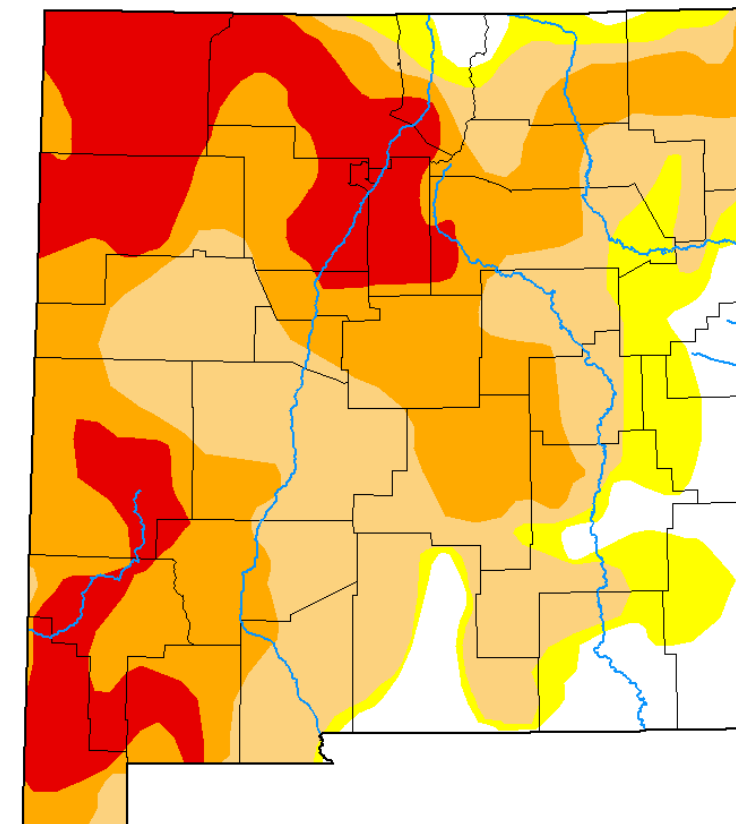
August 31, 2021



Drought Classification

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

September 28, 2021



The drought did not change much in September, with only a small increase in drought status in the northeast. There was no exceptional drought in September.

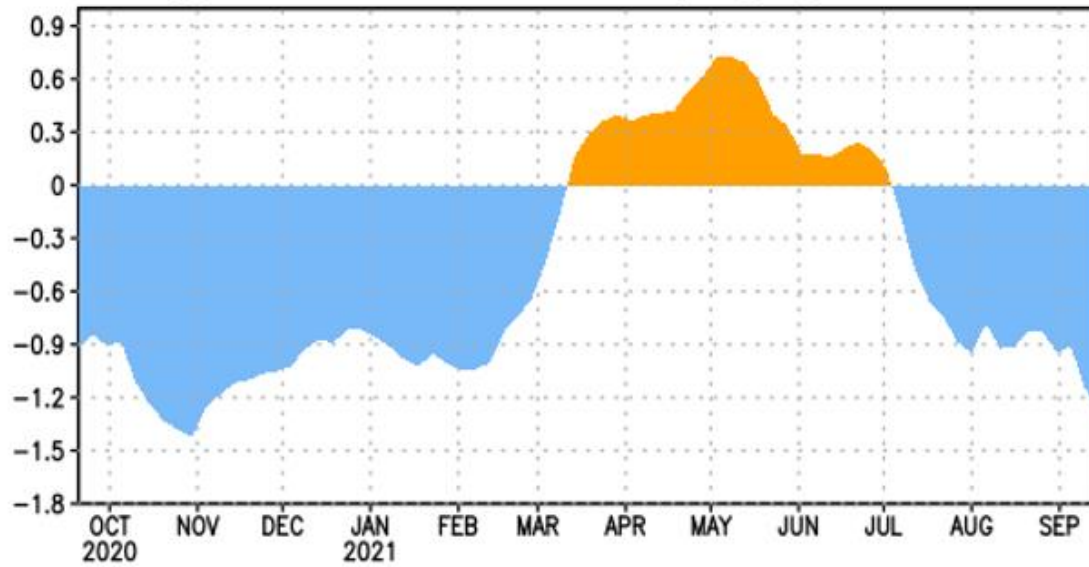
September 2021 Climate Summary

ENSO

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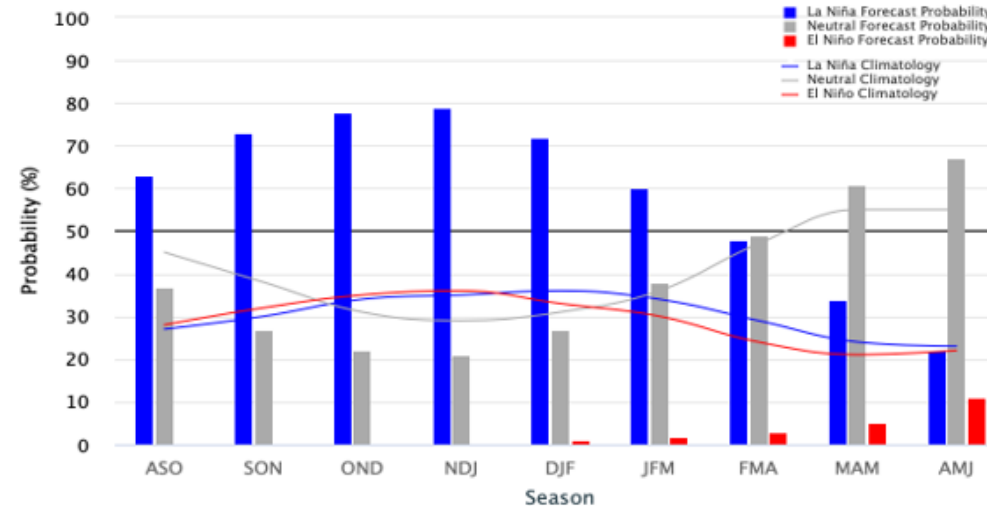


EQ. Upper-Ocean Heat Anoms. (deg C) for 180–100W

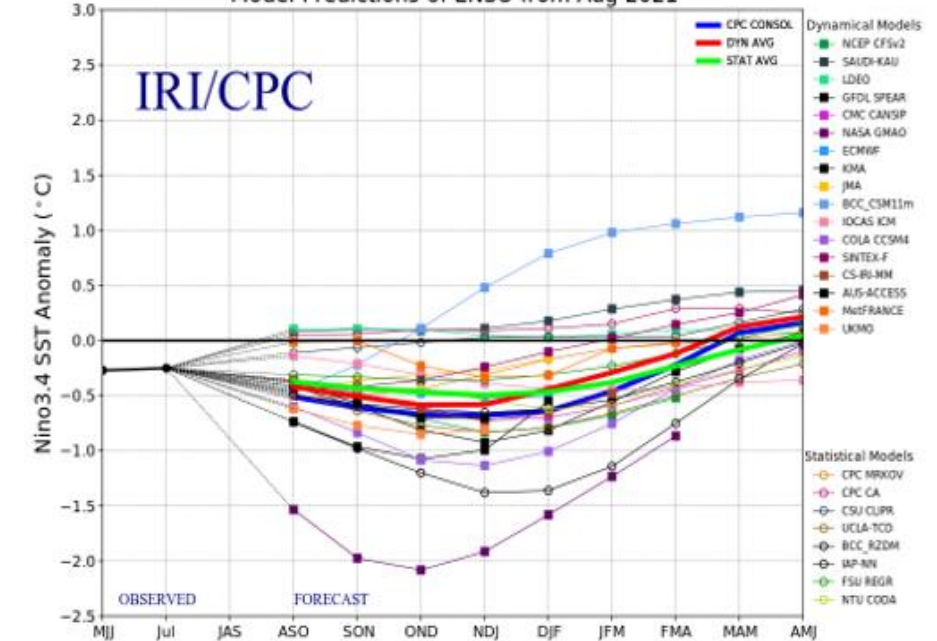


Early-September 2021 CPC/IRI Official Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly
Neutral ENSO: -0.5°C to 0.5°C



Model Predictions of ENSO from Aug 2021



September 2021 Climate Summary

90 Day Temperature & Precipitation Outlook

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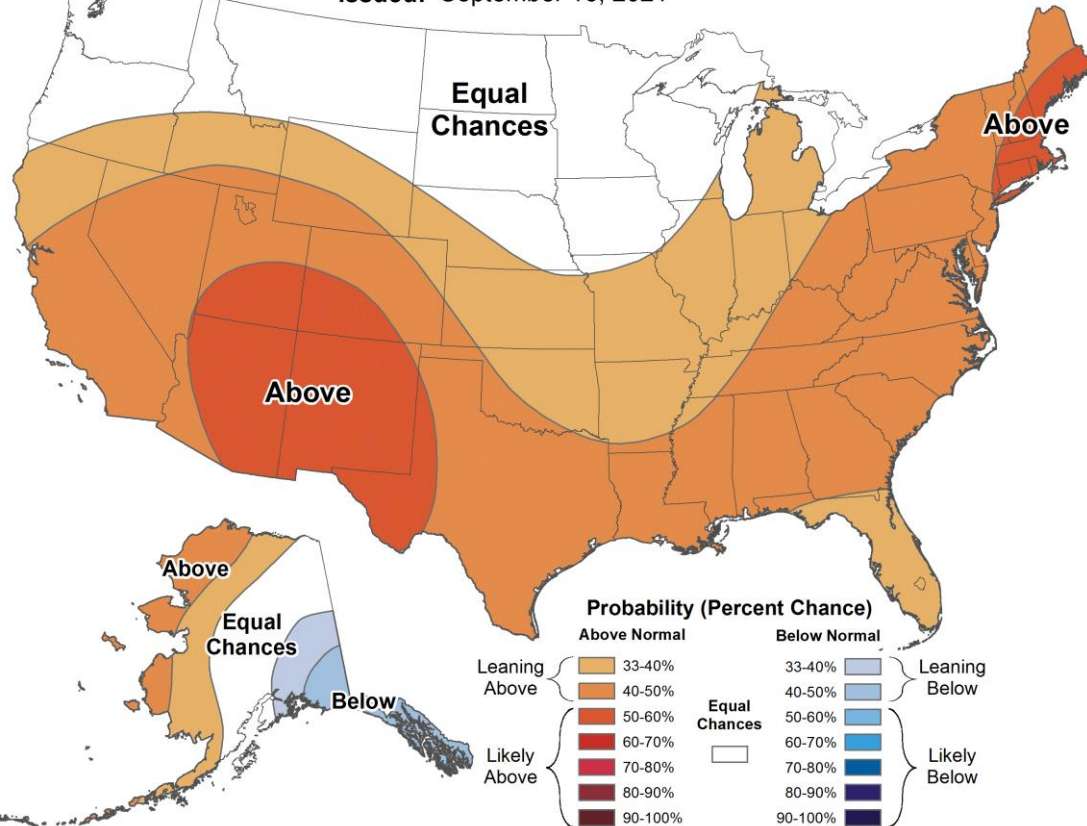
Temperature October-November-December



Seasonal Temperature Outlook



Valid: Oct-Nov-Dec 2021
Issued: September 16, 2021



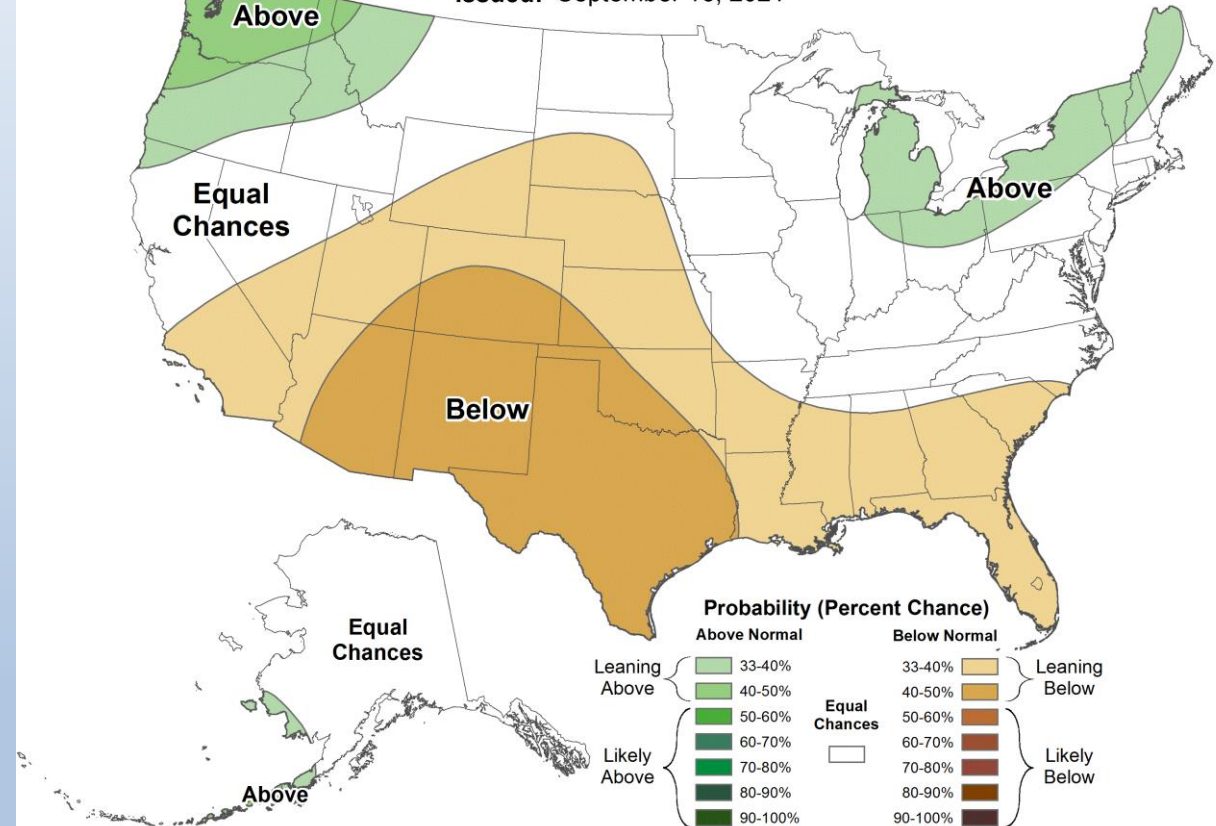
Precipitation October-November-December



Seasonal Precipitation Outlook










Valid: Oct-Nov-Dec 2021
Issued: September 16, 2021



The three month climate outlook for October through December strongly favors above normal temperatures. Precipitation shows a strong tendency toward below normal. This would favor persistent or worsening drought conditions in New Mexico through this fall.



-  NCEI Climatological Rankings: <https://www.ncdc.noaa.gov/cag/national/rankings>
-  PRISM Climate Data: <http://www.prism.oregonstate.edu/>
-  NWS Local Climate Pages: <https://w2.weather.gov/climate/index.php?wfo=abq>
-  NCEI Storm Data: <https://www.ncdc.noaa.gov/stormevents/>
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